Adaptive Hybrid Control for Noise Rejection



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Reviews

Thorough information! Its this kind of very good read. It is writter in basic words and not hard to understand. You wont feel monotony at anytime of your respective time (that's what catalogues are for regarding should you question me). (Roel Bogisich Sr.)

ADAPTIVE HYBRID CONTROL FOR NOISE REJECTION



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Adaptive control has become one of the fastest growing technologies in the world since the beginning of the computer era. The identification of adaptive controllers for practical systems is desired for better control. It provides an improved system response. Conventional PID controllers are tuned for fixed operating conditions. With the change in operating conditions or in presence of noise, the controller gives ambiguous results/ response. Under such conditions, adaptive controller plays a vital role. A number of models have been suggested for adaptive control. In the present work, a predictive neural network is used for noise rejection. In the first part, in order to provide adaptation, the neural network interpolates among the process output and the noise power present in a training set and the optimum system response is achieved. In the second part, a genetic algorithm in integration with the adaptive neurocontroller (ANC) is used to determine the weights and biases of the neural network for better results. The performance of these two approaches has been evaluated using data of different plants on a common set of performance indices. | Format: Paperback | Language/Sprache: english | 80 pp.



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